

REMARKS

Reconsideration is respectfully requested. Claims 17, 21 and 23-30 are present.

The applicant has requested that the undersigned submit the following to the Examiner:

The Applicant thanks the Examiner for his remarks and acknowledges that the note about Applicant's native language (clause 13) is quite right. This is true, English is not the native language of the Applicant, but he fairly believes that U.S.A. is not a country where imperfection or difficulties of English wording could substantiate refusal to register a valuable invention. The Applicant believes that implementation of his invention could be useful in U.S.A. as well as all over the world.

Originally the Applicant attempted to express the purport of his invention in English while not possessing the proper terminology. Mere in result of lasting correspondence with UTP&TO and kind help of the Examiner the Applicant became able to exact wordings which allowed him to reach significant progress. After careful analysis of Examiner's remarks the Applicant has made a conclusion that applied invention is actually an absolutely new version of a well-known device,

referred to in English literature as Random Numbers Generator (RNG), So the applied method is actually a method of playing a "space" game of chance using this new "space" RNG. The improved terminology allowed the Applicant to protect himself from unfair accusations of absence of ingenuity.

The Applicant has analyzed the last remarks of the Examiner and made a conclusion that majority of them (clauses 2-4 and further) may be converged to the assertion of the Examiner that the Applicant's response to the USP&TO communication of 12.08.2011 contains new elements absent in the original specification, claims and picture. The Applicant respectfully disagrees. Regardless amendments to specification, claims and pictures in course of correspondence with USP&TO, the substance of invention remained the same. There is no response of Applicant with absence of the main elements of the invention:

using of natural stochastic process to call forth a device (actually RNG) designed for playing a "space" game of chance;

using exactly the stochastic micrometeorite flow on a low Earth orbit as a natural stochastic process to call forth the RNG;

generation of an artificial stochastic process (sequence of random numbers) based on registration of the natural stochastic

process's manifestation (micrometeorite flow on a low Earth orbit);

registration of the micrometeorite flow manifestation on a low Earth orbit in form of registration of micrometeorites collisions with gaming fields (provided with numeral identification markers) by collision sensors (all components of the registering element located onboard a spacecraft);

the artificial stochastic process in form of sequence of links between numerical identification markers of gaming fields collided by micrometeorites with actual times of collisions (in mathematics such links are called sometimes "two dimensional vectors" or "imaginary numbers") called by the Applicant as "generated random numbers";

transmission of "generated random numbers" (enciphered signals) from space to Earth by radio-technical means called by the Applicant "telemetry channel";

receipt on Earth of "generated random numbers" (actually information about collisions) from space and further using of them in the "space" game of chance.

To the Examiner's remarks on pictures (clauses 2-3) the Applicant respectfully responses the following. There are no new elements on the fig. 1 which were absent in the previous versions of specification, claims and pictures:

3a - the side view of a gaming field being one of the fields with which the micrometeorites are supposed to stochastically collide;

3b - the face view a gaming field being one of the fields with which the micrometeorites are supposed to stochastically collide;

6 - the clock which records the time of collisions between micrometeorites and gaming fields;

7 - the (electronic) device providing links of numeral identification markers of the gaming fields which happen to be collided by micrometeorites and actual time of collisions (generating element of RNG);

8 - the (electronic) device (enciphering element of RNG), preparing the "generated random numbers" for transmission the Earth by "telemetry channel";

9 - the "telemetry channel";

11- the ground station receiving "gaming" signals from space (receiving element of RNG);

12 - the ground complex transforming the "gaming" signals from space to suitable form for presentation of the "generated random numbers" to players (presenting element of RNG).

The Applicant respectfully attracts attention of the Examiner to the fact that 59-64 on the fig.1 are not elements of

RNG, but sample numeral values of identification markers provided to the gaming fields. All listed above elements were repeatedly mentioned previously.

The Applicant respectfully attracts attention of the Examiner to the fact that on the fig.10 there is presented the sequence of steps for playing the "space" game. These steps according to definition comprise the method of playing the "space" game. The word "method" was always a part of the application title.

To the Examiner's remarks on specification (clause 4) the Applicant, in accordance with the arguments presented above, respectfully responses that there is no «new matter» in the new paragraph on the page 7.

To the Examiner's remarks on claims 21 and 31 (clause 6) the Applicant, in accordance with the arguments presented above, respectfully responses that there is no «new matter» in the claims.

To the Examiner's remarks on specification (clause 7) the Applicant respectfully responds that exact explanation of how the information of players is going on, or literally "providing gamblers with random numbers generated on the basis of exact collisions...", directly follows from fig.10, where there is schematically presented the method of playing the "space" game.

In accordance with this method the players may make bets on happening of collisions between micrometeorites and gaming fields provided with definite numeral identification numbers (by player's choice) in definite span of time (by player's choice). If in a chosen span of time there actually happen collisions with gaming fields provided with chosen numeral identification numbers, the player wins.

To the Examiner's remarks on specification (clause 8) the Applicant respectfully responds that exact explanation of "space" RNG design, or literally "a generating element of RNG, placed onboard of spacecraft and being an electronic unit which analyses signals from sensors of collisions simultaneously with indications of onboard clock...", directly follows from fig.1 where all the elements of applied RNG and all links between them are presented. The textual explanation of the RNG design was given in all previous responses (specification and claims) of the Applicant as well as is presented above.

To the Examiner's remarks on specification (clause 9) requiring parameters of orbit on which the spacecraft with the RNG "space segment" onboard has to be launched, or literally "orbiting earth on orbit of stochastic flow of micrometeorites...", the Applicant respectfully responds that according to data by NASA (U.S.A.) and Roscosmos (Russia) the

orbits, on which the stochastic features of the micrometeorite flows manifest themselves best, have altitudes from 300 to 800 kilometers.

To the Examiner's remarks on specification (clause 10) on the design features of gaming fields of the RNG "space segment", or literally "physically separated plane gambling fields provided with numeral identification markers and sensors...", the Applicant respectfully responds that that all the features are presented in the new paragraph of specification on page 20, after line 14, and on the fig.1. The Applicant attracts attention of the Examiner to the fact that namely physical separation of gaming fields from each other actually ensures exclusion of ambiguity from generation of random numbers, which is immensely important for the games of chance. In combination with collision sensors and clock these separated gaming fields ensure generation of random numbers applicable to the "space" game of chance.

To the Examiner's remarks on claims 21 and 22-31 (clause 12) on alleged absence of formulation for the invention subject matter the Applicant respectfully responses that he considers and emphasizes that foundation and subject matter of his invention is proposed absolutely new "space" generator of random numbers RNG which differs from all other known RNGs by fact that

is uses for generation of random numbers the grand scale natural stochastic process, namely stochastic micrometeorite flow in the near Earth space. As to the method of playing the "space" game, the Applicant considers it new as well as it uses absolutely new "space" generator of random numbers RNG because there are no methods applied before to fit this purpose.

To the Examiner's remarks on claim 21 (clause 13) on the first step in the method of playing the "space" game, or literally "making active sensors and technical facilities of a device for playing space game of chance...", being actually switching-on of the "space" RNG, the Applicant respectfully attracts attention of the Examiner to the fact that in this wording relates to a method, but not to a device.

To the Examiner's remarks on claim 31 (clause 13) on whether a system or a device is described here, the Applicant respectfully responses that in this part of claims a device is described, namely absolutely new "space" generator of random numbers RNG.

To the Examiner's remarks on claim 31 (clause 13) on insufficient clarity of composition of "space" RNG, the Applicant respectfully responses that besides immediate listing of RNG elements given directly in claim 31 all the RNG elements are depicted on fig.1. There are gaming fields with numerical

identification markers, collision sensors and clock. The sensors register events of micrometeorites collisions with the gaming fields, while clock register time of collisions.

To the Examiner's remarks on claim 31 (clause 13) on orbit on which the spacecraft with the RNG "space segment" onboard has to be launched, the Applicant respectfully repeats that according to data by NASA (U.S.A.) and Roscosmos (Russia) the orbits, on which the stochastic features of the micrometeorite flows manifest themselves best, have altitudes from 300 to 800 kilometers.

To the Examiner's remarks on claim 31 (clause 13) on uncertainty of collision sensors description the Applicant respectfully responds that exact design of the sensors may be voluntary, on condition of guaranteed exclusion of ambiguity for collision registration. The sensors may be electrical, tensional, acoustic or optical or of any other possible nature. As it clearly follows from specification, claims and fig.1, it is the sensors are used to detect collisions, but nor vice versa. The Applicant believes that even with his humble English level he never gave a real cause to make question of this.

To the Examiner's remarks on claim 31 (clause 13) on the "telemetry channel" term the Applicant respectfully confirms

that this term actually means a conventional transmitter for transmission of enciphered signal.

To the Examiner's remarks on claim 31 (clause 14) on the "place" term the Applicant respectfully responds that it means any place where the "space" game is supposed to be played and where the players may make their bets.

To the Examiner's remarks on claim 31 (clause 16) the Applicant respectfully responds that in the claim 21 the method of playing space game is described. This method uses space random numbers generator RNG which is described in claim 31. The Applicant emphasizes that there is direct and clear reference to claim 31 in claim 21.

The Applicant respectfully asks the Examiner to reconsider the application taking into account the responses given above.

In view of the above amendments and remarks, reconsideration and allowance are respectfully requested.

The Examiner is asked to contact applicant's attorney at 503-224-0115 if there are any questions.

It is believed that no fees are due with this filing. However, if it is determined that fees are required to keep the application pending, please charge deposit account 503036. If a refund is owed, please refund deposit account 503036.

Appl. No. 09/601,913
Response dated August 16, 2012
Response to Office Action of May 17, 2012

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I hereby certify that this correspondence is being electronically transmitted to the Patent and Trademark Office on this August 16, 2012.


